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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,147	07/09/2003	Giuseppe Visalli	851763.433	1396
500	7590	11/24/2004	EXAMINER	
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC			NGUYEN, JOHN B	
701 FIFTH AVE			ART UNIT	
SUITE 6300			PAPER NUMBER	
SEATTLE, WA 98104-7092			2819	

DATE MAILED: 11/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



<b>Office Action Summary</b>	<b>Application No.</b> 10/617,147	<b>Applicant(s)</b> VISALLI ET AL.	
	<b>Examiner</b> John B Nguyen	<b>Art Unit</b> 2819	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-11, 13-23 and 32-40 is/are allowed.
- 6) ☒ Claim(s) 12 and 24-31 is/are rejected.
- 7) ☒ Claim(s) 15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some    \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>07/06/2004</u> . | 6) <input type="checkbox"/> Other: ____.  |



## DETAILED ACTION

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in 10/617,147 on July 09, 2003. It is noted, however, that applicant has not filed a certified copy of the **EPO 02425456.7 dated July 10, 2002** application as required by 35 U.S.C. 119(b).

### *Claim Objections*

2. Claim 15 is objected to because of the following informalities: "**The device according to either claim 13**" please rewrite claim to "**The device according to claim 13**". Appropriate correction is required.

### *Claim Rejections - 35 USC § 112*

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 12, 24-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

5. Claim 12 recites the limitation "**said pattern (Pt)**" in "**line 8**". There is insufficient antecedent basis for this limitation in the claim.



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6. Claim 24 recites the limitation "**said pattern (Pt)**" in "line 8". There is insufficient antecedent basis for this limitation in the claim.
7. Claim 25 recites the limitation "**wherein components**" in "line 1". There is insufficient antecedent basis for this limitation in the claim.
8. Claims 27 recites the limitation "**said unit of said plurality constitute a combinatorial logic network**" in "line 1". There is insufficient antecedent basis for this limitation in the claim.
9. Claim 26-31 are reject based on their dependency of claim 25.

### ***Allowable Subject Matter***

10. Claims 12 and 24-31 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
11. Claims 1-11, 13-23, 32-40 are allowed.
12. The following is an examiner's statement of reasons for allowance:

The prior art fails to teach a process for transmitting data on a bus, minimizing switching activity on the bus itself, the process involving conversion of the data between a first format and a second format, the second format being used for transmission on the bus, the process comprising: converting between the first format and the second format by swapping of position of respective bits within a cluster having a given number of bits, the swapping being implementable according to a plurality of different variants, a



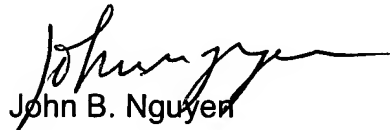
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maximum number of said variants being equal to a factorial value of said given number, each of the variants being identified by a respective swap pattern as called for in claims 1, 13, 32 and 36. Therefore, claims 1-11, 13-23, 32-40 are presently allowed.

### **Conclusion**

13. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B Nguyen whose telephone number (571) 272-1808. The examiner can normally be reached on 8AM-4:30PM M-F.



John B. Nguyen

November 22, 2004